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gaa tct tct gca Glu Ser Ser Ala 145	aag tca aag Lys Ser Lys 150	lle Asn Val	aat gag ata ttt Asn Glu Ile Phe 155	tat gac Tyr Asp 160
ctg gtc aga cag Leu Val Arg Gln	ata aat agg Ile Asn Arg 165	aaa aca cca Lys Thr Pro 170	gtg gaa aag aag Val Glu Lys Lys	aag cct 528 Lys Pro 175
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Asp Pro Thr Ile 35		Tyr Arg Lys 40	Gln Val Glu Val 45	Asp Cys
Gln Gln Cys Met	Leu Glu Ile 55	Leu Asp Thr	Ala Gly Thr Glu	Gln Phe
Thr Ala Met Arg	Asp Leu Tyr 70	Met Lys Asn	Gly Gln Gly Phe 75	Ala Leu 80
Val Tyr Ser Ile	Thr Ala Gln 85	Ser Thr Phe 90	Asn Asp Leu Gln	Asp Leu 95
Arg Glu Gln Ile 100	Leu Arg Val	Lys Asp Thr 105	Glu Asp Val Pro 110	Met Ile
Leu Val Gly Asn 115	Lys Cys Asp	Leu Glu Asp 120	Glu Arg Val Val	Gly Lys

Glu Gln Gly 130	Gln Asn Leu	Ala Arg Gln 135		sn Cys Ala 40	Phe Leu	
Glu Ser Ser 145	Ala Lys Ser 150	Lys Ile Asn	Val Asn Gl 155	lu Ile Phe	Tyr Asp 160	
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gcg cag agc Ala Gln Ser 35	aaa cat ctt Lys His Leu	tca aag aat Ser Lys Asn 40	gtc tgt aa Val Cys Ly	aa cct gtg ys Pro Val 45	gag gaa Glu Glu	144
aca cag cgc Thr Gln Arg 50	ccg ccc aca Pro Pro Thr	Leu Gln Glu	atc aag ca Ile Lys Gl 60	ln Lys Ile	gac agc Asp Ser	192
tac aac acg Tyr Asn Thr 65	cga gag aag Arg Glu Lys 70	aac tgc ctg Asn Cys Leu	ggc atg aa Gly Met Ly 75	aa ctg agt ys Leu Ser	gaa gac Glu Asp 80	240
ggc acc tac Gly Thr Tyr	acg ggt ttc Thr Gly Phe 85	atc aaa gtg Ile Lys Val	cat ctg aa His Leu Ly 90	aa ctc cgg ys Leu Arg	cgg cct Arg Pro 95	288
gtg acg gtg Val Thr Val	cct gct ggg Pro Ala Gly 100	atc cgg ccc lle Arg Pro 105	cag tcc at Gln Ser II	tc tat gat le Tyr Asp 110	gcc atc Ala Ile	336
aag gag gtg Lys Glu Val	aac ctg gcg Asn Leu Ala	gct acc acg Ala Thr Thr	gac aag cg Asp Lys Ar	gg aca tcc rg Thr Ser	ttc tac Phe Tyr	384

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			ata cac aag gac Ile His Lys Asp	
gtg ctc ttc Val Leu Phe	cag aaa ctc tcc Gln Lys Leu Ser 180	att gct gac lle Ala Asp 185	cgc ccc ctc tac Arg Pro Leu Tyr 190	ctg cgc 576 Leu Arg
ctg ctt gct Leu Leu Ala 195	ggg cct gac acg Gly Pro Asp Thr	g gag gtc ctc Glu Val Leu 200	agc ttt gtg cta Ser Phe Val Leu 205	aag gag 624 Lys Glu
aat gaa act Asn Glu Thr 210	gga gag gta gag Gly Glu Val Glu 215	ı Trp Asp Ala	ttc tcc atc cct Phe Ser Ile Pro 220	gaa ctt 672 Glu Leu
cag aac ttc Gln Asn Phe 225	cta aca atc ctg Leu Thr Ile Leu 230	g gaa aaa gag i Glu Lys Glu	gag cag gac aaa Glu Gln Asp Lys 235	atc caa 720 Ile Gln 240
caa gtg caa Gln Val Gln	aag aag tat gad Lys Lys Tyr Asp 245	aag ttt agg Lys Phe Arg 250	cag aaa ctg gag Gln Lys Leu Glu	gag gcc 768 Glu Ala 255
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Ala Gln Ser	Lys His Leu Ser	Lys Asn Val	Cys Lys Pro Val	Glu Glu

Thr Gln Arg Pro Pro Thr Leu Gln Glu IIe Lys Gln Lys IIe Asp Ser 50Tyr Asn Thr Arg Glu Lys Asn Cys Leu Gly Met Lys Leu Ser Glu Asp 65 70 75 80 Gly Thr Tyr Thr Gly Phe lle Lys Val His Leu Lys Leu Arg Arg Pro 85 90 95 Val Thr Val Pro Ala Gly Ile Arg Pro Gln Ser Ile Tyr Asp Ala Ile 100 105 110 Lys Glu Val Asn Leu Ala Ala Thr Thr Asp Lys Arg Thr Ser Phe Tyr Leu Pro Leu Asp Ala IIe Lys Gln Leu His IIe Ser Ser Thr Thr 130 $$ 135 $$ $$ $$ $$ $$ $$ $$ Val Ser Glu Val IIe Gln Gly Leu Leu Lys Lys Phe Met Val Val Asp 145 150 155 160 Asn Pro Gln Lys Phe Ala Leu Phe Lys Arg Ile His Lys Asp Gly Gln 165 170 Val Leu Phe Gln Lys Leu Ser Ile Ala Asp Arg Pro Leu Tyr Leu Arg 180 185 190 Leu Leu Ala Gly Pro Asp Thr Glu Val Leu Ser Phe Val Leu Lys Glu Asn Glu Thr Gly Glu Val Glu Trp Asp Ala Phe Ser Ile Pro Glu Leu 210 220 Gln Asn Phe Leu Thr Ile Leu Glu Lys Glu Glu Gln Asp Lys Ile Gln 225 $$ $$ Gln Val Gln Lys Lys Tyr Asp Lys Phe Arg Gln Lys Leu Glu Glu Ala 255 Leu Arg Glu Ser Gln Gly Lys Pro Gly 265

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ctg gcg Leu Ala	ı Ala T	cc acg hr Thr 0	gac Asp	aag Lys	cgg Arg	aca Thr 25	tcc Ser	ttc Phe	tac Tyr	ctg Leu	ccc Pro 30	cta Leu	gat Asp	96
gcc ato Ala Ile	aag c Lys G 35	ag ctg In Leu	cac His	atc Ile	agc Ser 40	agc Ser	acc Thr	acc Thr	acc Thr	gtc Val 45	agt Ser	gag Glu	gtc Val	144
atc cag lle Glr 50	g ggg c n Gly L	tg ctc eu Leu	aag Lys	aag Lys 55	ttc Phe	atg Met	gtt Val	gtg Val	gac Asp 60	aat Asn	ccc Pro	cag Gln	aag Lys	192
ttt gca Phe Ala 65	ıctt t ıLeu P	tt aag he Lys	cgg Arg 70	ata Ile	cac His	aag Lys	gac Asp	gga Gly 75	caa Gln	gtg Val	ctc Leu	ttc Phe	cag Gln 80	240
aaa cto Lys Lei														288
cct gad Pro Asi	o Thr G	ag gtc lu Val 00	ctc Leu	agc Ser	ttt Phe	gtg Val 105	cta Leu	aag Lys	gag Glu	aat Asn	gaa Glu 110	act Thr	gga Gly	336
gag gta Glu Val	gag t Glu T 115	gg gat rp Asp	gcc Ala	ttc Phe	tcc Ser 120	atc Ile	cct Pro	gaa Glu	ctt Leu	cag Gln 125	aac Asn	ttc Phe	cta Leu	384
aca ato Thr Ile 130	e Leu G	aa aaa lu Lys	gag Glu	gag Glu 135	cag Gln	gac Asp	aaa Lys	atc Ile	caa Gln 140	caa Gln	gtg Val	caa Gln	aag Lys	432
aag tat Lys Tyr 145	gac a Asp L	ag ttt ys Phe	agg Arg 150	cag Gln	aaa Lys	ctg Leu	gag Glu	gag Glu 155	gcc Ala	t ta Leu	aga Arg	gaa Glu	tcc Ser 160	480
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Ala Ile Lys Gl
n Leu His Ile Ser Ser Thr Thr Thr Val Ser Glu Val
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lle Gln Gly Leu Leu Lys Lys Phe Met Val Val Asp Asn Pro Gln Lys 50 60

Phe Ala Leu Phe Lys Arg IIe His Lys Asp Gly Gln Val Leu Phe Gln 65 70 75 80

Lys Leu Ser IIe Ala Asp Arg Pro Leu Tyr Leu Arg Leu Leu Ala Gly 85 90 95

Pro Asp Thr Glu Val Leu Ser Phe Val Leu Lys Glu Asn Glu Thr Gly

Glu Val Glu Trp Asp Ala Phe Ser Ile Pro Glu Leu Gln Asn Phe Leu 115 120 125

Thr lle Leu Glu Lys Glu Glu Gln Asp Lys Ile Gln Gln Val Gln Lys 130 140

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                                                                                                                  144
aca cag cac ccg ccc acg ata cag gag atc aag cag aag att gac agc Thr Gln His Pro Pro Thr Ile Gln Glu Ile Lys Gln Lys Ile Asp Ser 50 60
                                                                                                                  192
tat aac agc agg gag aag cac tgc ctg ggc atg aag ctg agt gaa gat
Tyr Asn Ser Arg Glu Lys His Cys Leu Gly Met Lys Leu Ser Glu Asp
65 70 75 80
                                                                                                                  240
ggc acc tac aca ggt ttc atc aaa gtg cat ttg aag ctc cga cgg cca Gly Thr Tyr Thr Gly Phe IIe Lys Val His Leu Lys Leu Arg Arg Pro 85
                                                                                                                  288
gtg acg gtg ccc gct ggg atc cgg ccc cag tcc atc tat gat gcc att Val Thr Val Pro Ala Gly Ile Arg Pro Gln Ser Ile Tyr Asp Ala Ile 100 105 110
                                                                                                                  336
                                                                                                                  384
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Lys Glu Val Asn Pro Ala Ala Thr Thr Asp Lys Arg Thr Ser Phe Tyr
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aac cca cag aag Asn Pro Gln Lys	ttt gca ctt ttt Phe Ala Leu Phe 165	t aag cgg ata c e Lys Arg Ile b 170	cac aaa gat gga His Lys Asp Gly 175	caa 528 Gln
gtg ctc ttc cag Val Leu Phe Gln 180	aaa ctc tcc att Lys Leu Ser Ile	t gct gac tat c e Ala Asp Tyr F 185	cct ctc tac ctt Pro Leu Tyr Leu 190	cgt 576 Arg
ctg ctc gct ggg Leu Leu Ala Gly 195	cct gac acc gat Pro Asp Thr Asp 200	p Val Leu Ser F	ttt gtg cta aag Phe Val Leu Lys 205	gag 624 Glu
aat gaa act gga Asn Glu Thr Gly 210	gag gtg gag tgg Glu Val Glu Trp 215	p Asp Ala Phe S	tcc att cct gaa Ser Ile Pro Glu 220	ctc 672 Leu
cag aac ttt tta Gln Asn Phe Leu 225	act atc ctg gaa Thr lle Leu Glu 230	a aaa gag gag c u Lys Glu Glu C 235	cag gac aag atc Gln Asp Lys Ile	cat 720 His 240
caa ctg caa aag Gln Leu Gln Lys	aag tac aac aaa Lys Tyr Asn Lys 245	a ttc cgt cag a s Phe Arg Gln L 250	aaa ctg gaa gag Lys Leu Glu Glu 255	gca 768 Ala
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Leu Gln Ser Lys	Gln Pro Ser Lys	s Asn Val Cys L	Lys Ala Val Glu 45	Glu

Thr Gln His Pro Pro Thr Ile Gln Glu Ile Lys Gln Lys Ile Asp Ser 50 60 Tyr Asn Ser Arg Glu Lys His Cys Leu Gly Met Lys Leu Ser Glu Asp 65 70 80Gly Thr Tyr Thr Gly Phe IIe Lys Val His Leu Lys Leu Arg Arg Pro 85 90 95 Val Thr Val Pro Ala Gly Ile Arg Pro Gln Ser Ile Tyr Asp Ala Ile 100 105 110 Lys Glu Val Asn Pro Ala Ala Thr Thr Asp Lys Arg Thr Ser Phe Tyr 115 Leu Pro Leu Asp Ala IIe Lys Gln Leu His IIe Ser Ser Thr Thr 130 140 Val Ser Glu Val IIe Gln Gly Leu Leu Lys Lys Phe Met Val Val Asp 145 150 155 160 Asn Pro Gln Lys Phe Ala Leu Phe Lys Arg Ile His Lys Asp Gly Gln 165 170 175 Val Leu Phe Gln Lys Leu Ser·lle Ala Asp Tyr Pro Leu Tyr Leu Arg 180 185 190 Leu Leu Ala Gly Pro Asp Thr Asp Val Leu Ser Phe Val Leu Lys Glu 195Asn Glu Thr Gly Glu Val Glu Trp Asp Ala Phe Ser IIe Pro Glu Leu 210 215 Gln Asn Phe Leu Thr lle Leu Glu Lys Glu Glu Gln Asp Lys lle His 225 230 235 240 Gl
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